BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA DIVISION

Name of work: Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.

FIRST AND PART BILL

TEST REPORTS

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	P.C.C
Location/Source	At Laboratory	Date of Sampling	15-06-2020
Period of Soaking	24 hours	Date of Testing	16-06-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		652	648	668	
B	Weight of oven - dry sample gm.		643	639	658	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1686	1682	1696	
E	Bulk specific gravity	B / (C + A - D)	2.668	2.651	2.664	2.661
G	Absorption (%)	(A - B) *100 / B	1.400	1.408	1.520	1.443

Remarks : ✓ Satisfactory / Not Satisfactory

Note :- The materials used in the site satisfied the standards of MORTH's 5th Revision and hence can be used in the work

TEJUS CONSULTANTS

Consultant's Representative

TEJUS CONSULTANTS

AE

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	P.C.C
Location/Source	At Laboratory	Date of Sampling	15-06-2020
Period of Soaking	24 hours	Date of Testing	16-06-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		642	674	658	
B	Weight of oven - dry sample gm.		634	666	650	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1678	1698	1688	
E	Bulk specific gravity	B / (C + A - D)	2.653	2.653	2.653	2.653
G	Absorption (%)	(A - B) *100 / B	1.262	1.201	1.231	1.231

Remarks :

✓ Satisfactory / Not Satisfactory

NOTE: The materials used in the site satisfied the standard of MORTH 5th revision and hence can be used in the work.

Consultant's Representative

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

TEJUS
CONSULTANTS

TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	**Fine aggregate (River Sand/M sand)**	**Proposed Use**	P.C.C
Sample Location	Raghavendraswamy Temple Road, Chainage @75	**Date of Sampling**	15-06-2020
		Date of Testing	16-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	206	206	6.87	93.13	90 - 100
2.36 mm	294	500	16.67	83.33	75 - 100
1.18 mm	554	1054	35.13	64.87	55 - 90
0.600 mm	488	1542	51.40	48.60	35 -59
0.300 mm	634	2176	72.53	27.47	8-30
0.150 mm	610	2786	92.87	7.13	0 - 10
Pan	214	3000			
					-

Remarks : ✓ Satisfactory / Not Satisfactory

NOTE: The material used in site satisfied the standard of MORTH 5th revision and hence can be used in work.

Consultant's Representative

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

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CONSULTANTS

TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material	**Fine aggregate (River Sand/M sand)**		**Proposed Use**	P.C.C	
Sample Location	Ab Shivakumar House road to NH-7, Chainage @ 68.85		**Date of Sampling**	15-06-2020	
			Date of Testing	16-06-2020	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	228	228	7.60	92.40	**90 - 100**
2.36 mm	286	514	17.13	82.87	**75 - 100**
1.18 mm	536	1050	35.00	65.00	**55 - 90**
0.600 mm	492	1542	51.40	48.60	**35 -59**
0.300 mm	636	2178	72.60	27.40	**8-30**
0.150 mm	610	2788	92.93	7.07	**0 - 10**
Pan	212	3000			**-**

Remarks : ✓ Satisfactory / Not Satisfactory

NOTE: The material used in the satisfied the standard of MORTH 5th Revision and hence can be used in the work.

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

Consultant's Representative

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Total Weight in gı	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	Proposed Use	P.C.C
Sample Location	Ab Shivakumar House road to NH-7,Chainage @ 68.85	Date of Sampling	15-06-2020
		Date of Testing	16-06-2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007)
					% of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	76	76	2.53	97.47	95-100
20.00mm	1460	1536	51.20	48.80	30-70
10.00mm	922	2458	81.93	18.07	10-35
4.75mm	458	2916	97.20	2.80	0-5
Pan	84	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

NOTE: The material used in the site satisfied the standard of NORTH 5th Division and hence can be used in the work.

AE

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

Consultant's Representative

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Test Report on Cement

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Sample ID	Cement
Date of Sample Tested	16-06-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	105 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	480	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	

Remarks : ✓ Satisfactory / Not Satisfactory

AE-I NOTE: The material used in the site satisfied the Standard of MORTH 5th revision and hence can be used in the work.

Asst. Executive Engineer
Yelahanka Sub Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Consultant's Representative

TEJUS CONSULTANTS

AE

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS

Test Report on Cement

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Sample ID	Cement
Date of Sample Tested	17-06-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	115 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	392 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

Remarks : ✓ Satisfactory / Not Satisfactory

NOTE! The material used on the site satisfied the standard of MORTH's 5th revision and hence can be used in the work

AE-I

Consultant's Representative

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

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TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate M sand)	Proposed Use	concrete
Sample Location	At ~~Site~~/Plant	Date of Sampling	18-06-2020
		Date of Testing	18-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	214	214	7.13	92.87	90 - 100
2.36 mm	306	520	17.33	82.67	75 - 100
1.18 mm	422	942	31.40	68.60	55 - 90
0.600 mm	486	1428	47.60	52.40	35 -59
0.300 mm	710	2138	71.27	28.73	8-30
0.150 mm	632	2770	92.33	7.67	0 - 10
Pan	230	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site ~~can~~ satisfied the standard of MORTH'S 5th revision and hence can be used in the work.

AE-I

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP) Zone
Yelahanka, Bangalore

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/~~At site~~	Date of Sampling	18-06-2020
		Date of Testing	18-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	268	268	2.68	97.32	95 - 100
10.00 mm	4834	5102	51.02	48.98	25 - 55
4.75 mm	4228	9330	93.30	6.70	0 - 10
Pan	670	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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AE-I

Asst. Executive Engineer Yelahanka Sub Division (BBMP) Yelahanka, Bangalore

AE

Asst. Executive Engineer BBMP Yelahanka Sub Division

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Test Report on Cement

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Sample ID	Cement
Date of Sample Tested	18-06-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	110 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	496 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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AE-1

Asst. Executive Engineer Yelahanka Sub. Divison (BBMP Ynk: Zn) Yelahanka, Bangalore

AE

Asst. Executive Engineer BBMP Yelahanka Sub Division

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/~~At site~~	Date of Sampling	18-06-2020
		Date of Testing	18-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	268	268	2.68	97.32	95 - 100
10.00 mm	4834	5102	51.02	48.98	25 - 55
4.75 mm	4228	9330	93.30	6.70	0 - 10
Pan	670	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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4. The material used in the site satisfied the standard of MORTH'S 5th revision and hence can be used in the work

AE-1

Asst. Executive Engineer
Yelahanka Sub-Division
(BBMP Ykr-Zn)
Yelahanka, Bangalore

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/~~At site~~	Date of Sampling	18-06-2020
		Date of Testing	18-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	264	264	2.64	97.36	95 - 100
10.00 mm	4836	5100	51.00	49.00	25 - 55
4.75 mm	4222	9322	93.22	6.78	0 - 10
Pan	678	10000			

AE-1

Remarks : ✓ Satisfactory / Not Satisfactory

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4. The material used in the site satisfied the standards of MORTH's 5th revision and hence can be used on the work

Asst. Executive Engineer
Sub-Division
Yelahanka Zone
(BBMP)
Yelahanka, Bangalore

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

Authorised Signatory

TEJUS CONSULTANTS

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate M sand)	Proposed Use	concrete
Sample Location	At ~~Site~~/Plant	Date of Sampling	18-06-2020
		Date of Testing	18-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	214	214	7.13	92.87	90 - 100
2.36 mm	306	520	17.33	82.67	75 - 100
1.18 mm	422	942	31.40	68.60	55 - 90
0.600 mm	486	1428	47.60	52.40	35 -59
0.300 mm	710	2138	71.27	28.73	8-30
0.150 mm	632	2770	92.33	7.67	0 - 10
Pan	230	3000			
					-

Remarks : ✓ Satisfactory / Not Satisfactory

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work

AE-I

AE

Asst. Executive Engineer Yelahanka Sub Divison (BBMP) Nth. Zn. Yelahanka, Bangalore

Asst. Executive Engineer BBMP Yelahanka Sub Division

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Location/Source	At Laboratory	Date of Sampling	18-06-2020
Period of Soaking	24 hours	Date of Testing	19-06-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		648	679	658	
B	Weight of oven - dry sample gm.		641	672	648	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1682	1701	1690	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.660	2.656	2.667	2.661
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.092	1.042	1.543	1.226

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Queries regarding the report must be reported reported within 15days from the date of testing.

AE-1

This material used in the site satisfied the standard MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

TEJUS CONSULTANTS

Authorised Signatory

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At ~~Site~~/Plant	Date of Sampling	19-06-2020
		Date of Testing	19-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	210	210	7.00	93.00	90 - 100
2.36 mm	308	518	17.27	82.73	75 - 100
1.18 mm	412	930	31.00	69.00	55 - 90
0.600 mm	488	1418	47.27	52.73	35 -59
0.300 mm	762	2180	72.67	27.33	8-30
0.150 mm	655	2835	94.50	5.50	0 - 10
Pan	165	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

Note:
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3. Any Query regarding the report must be reported reported within 15days from the date of testing.

AE-I

The material used in the site satisfied the standard of MORTH'S 5th revision and hence can be used in the work.

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP, Ynk. Zone)
Yelahanka, Bangalore

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS

Authorised Signatory

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Test Report on Cement

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Sample ID	Cement
Date of Sample Tested	19-06-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	95 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	464 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	7 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

Note:
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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The Material used in the site satisfied the standard of MORTH's 5th revision and hence can be used for work

AE-1

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike		
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.		
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore		
Contractor	M/S Benaka Developers and Projects Pvt Ltd		
Total Weight:	10000	gms	

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/At site	Date of Sampling	19-06-2020
		Date of Testing	19-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	254	254	2.54	97.46	95 - 100
10.00 mm	4838	5092	50.92	49.08	25 - 55
4.75 mm	4212	9304	93.04	6.96	0 - 10
Pan	696	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

Note:
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3. Any Query regarding the report must be reported reported within 15days from the date of testing.

The material used on the site satisfied the standard of MORTH'P 5th revision and hence can be used in the work

AE-I

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zone)
Yelahanka, Bangalore

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	.Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE
Sample Location	At ~~Site~~/Plant	Date of Sampling	19-06-2020
		Date of Testing	19-06-2020

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	520	520	5.20	94.80	90-100
10.0	4696	5216	52.16	47.84	40-85
4.75	4428	9644	96.44	3.56	0-10
Pan	356	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

AE-1

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ylk. Zone)
Yelahanka, Bangalore

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4. The material used on the site satisfied the standard of MORTH'S 5th revision and hence can be used in the work

AE

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEJUS CONSULTANTS

TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At ~~Site~~/Plant	Date of Sampling	19-06-2020
		Date of Testing	19-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	215	215	7.17	92.83	90 - 100
2.36 mm	309	524	17.47	82.53	75 - 100
1.18 mm	428	952	31.73	68.27	55 - 90
0.600 mm	492	1444	48.13	51.87	35 -59
0.300 mm	705	2149	71.63	28.37	8-30
0.150 mm	644	2793	93.10	6.90	0 - 10
Pan	207	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

AE-1

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP) Ynk. Zone
Yelahanka, Bangalore

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEJUS CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At ~~Site~~/Plant	Date of Sampling	19-06-2020
Period of Soaking	24 hours	Date of Testing	20-06-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		665	670	666	
B	Weight of oven - dry sample gm.		656	662	657	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1694	1696	1694	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.667	2.659	2.660	2.662
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.372	1.208	1.370	1.317

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AE-1
1

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP-Y.nk. Zn)
Yelahanka, Bangalore

The material used in the site satisfied the standard of MORTH's 5th Revision & Hence can be used in the work

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/~~At site~~	Date of Sampling	20-06-2020
		Date of Testing	20-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	260	260	2.60	97.40	95 - 100
10.00 mm	4848	5108	51.08	48.92	25 - 55
4.75 mm	4323	9431	94.31	5.69	0 - 10
Pan	569	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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AE-1

The Material used in the site satisfied the standard of MORTH's 5th Revision and Hence can be used in the work

Asst. Executive Engineer (Sub. Divison) Yelahanka (BBMP Ynk. Zn) Yelahanka, Bangalore

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

Test Report on Cement

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Sample ID	Cement
Date of Sample Tested	22-06-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	104 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	478 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	26.00%	25 % to 35

Note:
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AE-1

Asst. Executive Engineer, Yelahanka Sub Division (BBMP), Yelahanka, Bangalore

The Material used in the site Satisfied the standards MORTH's 5th Revision and Hence can be used in the work

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	~~At Site~~/Plant	Date of Sampling	22-06-2020
		Date of Testing	22-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	212	212	7.07	92.93	90 - 100
2.36 mm	306	518	17.27	82.73	75 - 100
1.18 mm	410	928	30.93	69.07	55 - 90
0.600 mm	482	1410	47.00	53.00	35 -59
0.300 mm	764	2174	72.47	27.53	8-30
0.150 mm	646	2820	94.00	6.00	0 - 10
Pan	180	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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3. Any Queries regarding the report must be reported reported within 15days from the date of testing.

AE-I

The Material used in the site satisfied the standards MORTH's 5th Revision and Hence can be used for the work

AE

Asst. Executive Engineer
Yelahanka Sub Divison
(BBMP Pnk. Zn)
Yelahanka, Bangalore

TEJUS CONSULTANTS

Authorised Signatory

TEST REPORT

TEJUS CONSULTANTS

Clients	Bruhat Bangalore Mahanagara Palike
Project	.Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE
Sample Location	~~At Site~~/Plant	Date of Sampling	22-06-2020
		Date of Testing	22-06-2020

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	518	518	5.18	94.82	90-100
10.0	4658	5176	51.76	48.24	40-85
4.75	4422	9598	95.98	4.02	0-10
Pan	402	10000			

Remarks: ✓ Satisfactory / Not Satisfactory

AE-1

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka Bangalore

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The material used in the site satisfied the standard of MORTH's 5th Revision and hence considered in the work

AE

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	~~At Site~~/Plant	Date of Sampling	22-06-2020
		Date of Testing	22-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	208	208	6.93	93.07	90 - 100
2.36 mm	312	520	17.33	82.67	75 - 100
1.18 mm	414	934	31.13	68.87	55 - 90
0.600 mm	488	1422	47.40	52.60	35 -59
0.300 mm	768	2190	73.00	27.00	8-30
0.150 mm	655	2845	94.83	5.17	0 - 10
Pan	155	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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AE-I

The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work

Authorised Signatory

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP) Ynk. Zone
Yelahanka, Bangalore

TEJUS CONSULTANTS

TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	~~At Site~~/Plant	Date of Sampling	22-06-2020
		Date of Testing	22-06-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	226	226	7.53	92.47	90 - 100
2.36 mm	308	534	17.80	82.20	75 - 100
1.18 mm	414	948	31.60	68.40	55 - 90
0.600 mm	488	1436	47.87	52.13	35 -59
0.300 mm	765	2201	73.37	26.63	8-30
0.150 mm	638	2839	94.63	5.37	0 - 10
Pan	161	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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The material used in the site satisfied the standard of MORTH's 5th Revision and hence can be used in the work

AE

Asst. Executive Engineer
Yelahanka Sub Division
BBMP Ynk. Bangalore

TEJUS CONSULTANTS

Authorised Signatory

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	~~At Site~~/Plant	Date of Sampling	22-06-2020
Period of Soaking	24 hours	Date of Testing	23-06-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		670	673	668	
B	Weight of oven - dry sample gm.		662	664	659	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1696	1698	1696	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.659	2.656	2.668	2.661
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.208	1.355	1.366	1.310

Note:

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AE-1

The material used in the site satisfied the standard of MORTH's 5th Revision and hence can be used in the work.

AE

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample location	Raghavendraswamy Temple Road, Chainage @ 75m

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	23-06-2020	30-06-2020	7 days	8.122	22500	302	13.42	13.45
2	23-06-2020	30-06-2020	7 days	8.130	22500	306	13.60	
3	23-06-2020	30-06-2020	7 days	8.136	22500	300	13.33	

Note:

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4. The material used in the site satisfied the standard of MORTH's 5th Revision and hence can be used in the work

Authorised Signatory

AEE W-01

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample location	4th cross Rd in Maruthinagar 3rd main, Chainage @ 45

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	04-07-2020	11-07-2020	7 days	8.140	22500	302	13.42	13.54
2	04-07-2021	11-07-2021	7 days	8.134	22500	304	13.51	
3	04-07-2022	11-07-2022	7 days	8.138	22500	308	13.69	

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfies the standards of morth 5th revision & hence can be used for the work.

Authorised Signatory

AE

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

TEJUS CONSULTANTS

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample location	Prakash Theatre road, Chainage @ 110.4

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	27-06-2020	25-07-2020	28days	8.146	22500	490	21.78	21.54
2	27-06-2020	25-07-2020	28days	8.138	22500	482	21.42	
3	27-06-2020	25-07-2020	28days	8.142	22500	482	21.42	

Note:
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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4, the material used in the site satisfies the standards of MORTH 5th revision and can be used in the work

Authorised Signatory

TEJUS CONSULTANTS

AE

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample location	3rd cross Rd in Maruthinagar 3rd main, Chainage @ 15

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	30-06-2020	28-07-2020	28 days	8.144	22500	482	21.42	21.72
2	30-06-2020	28-07-2021	28 days	8.152	22500	490	21.78	
3	30-06-2020	28-07-2022	28 days	8.136	22500	494	21.96	

Note:
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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4, the material used in the site satisfied standards of [illegible] & the regulation and can be used in the work

TEJUS CONSULTANTS

Authorised Signatory

AEE

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS

TEJUS
CONSULTANTS

Test Report on Cement

Project	Improvements to roads Drains and other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Sample ID	Cement
Date of Sample Tested	30-09-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	108 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	412 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	
Remarks :		✓ Satisfactory / Not Satisfactory		

AE-1

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

AE

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

Consultant's Representative

TEJUS CONSULTANTS

Note :- The material used in the site satisfies the standards of MORTH specification and Hence can be used in the work.

TEJUS CONSULTANTS

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, Ph: +91 80 23287532, tejusconsultants@gmail.com

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Materia	Fine aggregate (River Sand/M sand)	Proposed Use	Concrete	
Sample Locatior	At Plant/[redacted]	Date of Sampling	30-09-2020	
		Date of Testing	30-09-2020	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	226	226	7.53	92.47	90 - 100
2.36 mm	280	506	16.87	83.13	75 - 100
1.18 mm	408	914	30.47	69.53	55 - 90
0.600 mm	570	1484	49.47	50.53	35 -59
0.300 mm	748	2232	74.40	25.60	8-30
0.150 mm	536	2768	92.27	7.73	0 - 10
Pan	232	3000			-

Remarks: ✓ Satisfactory / Not Satisfactory

The material in the site same as per standards of morth 5th revision and hence can be used in the work.

Consultant's Representative

AE-1

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

TEJUS CONSULTANTS

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No.01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Concrete
Sample Location	Plant	Date of Sampling	30-09-2020
		Date of Testing	30-09-2020

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	564	564	5.64	94.36	90-100
10.0	3382	3946	39.46	60.54	40-85
4.75	5482	9428	94.28	5.72	0-10
Pan	572	10000			

AE-I

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Remarks: ✓ Satisfactory / Not Satisfactory

Note :- The material used in the site satisfies the standard of MORTH specification and hence can be used in work.

AE

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS (stamp)

Consultant's Representative

TEJUS CONSULTANTS (stamp)

TEJUS CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand/M sand	Proposed Use	Concrete
Location/Source	At Plant/~~site~~	Date of Sampling	30-09-2020
Period of Soaking	24 hours	Date of Testing	01-10-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	638	656	674	
B	Weight of oven - dry sample gm.	628	648	666	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1676	1688	1698	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.650	2.667	2.653	2.657
G	Absorption (%) $\frac{(A-B)}{B}*100$	1.592	1.235	1.201	1.343

Remarks : AE-1 [stamp: Asst. Executive Engineer, Yelahanka Sub. Divison (BBMP Ynk. Zn) Yelahanka, Bangalore]

✓ Satisfactory / Not Satisfactory

Note: The material used in the site satisfied the standards of work & inspection and hence can be used.

Consultant's Representative

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

[stamp: TEJUS CONSULTANTS] [stamp: TEJUS CONSULTANTS]

Test Report on Cement

Project	Improvements to roads Drains and other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Sample ID	Cement
Date of Sample Tested	01-10-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	94 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	398	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	
Remarks :			Satisfactory / Not Satisfactory	

Note! the material used in the work site satisfied the standards of MORTH's Revision all these can be used in the work

AE

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bengalore

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

Consultant's Representative

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	Plant		Date of Sampling	01-10-2020	
			Date of Testing	01-10-2020	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	560	560	5.60	94.40	100
10.0	3384	3944	39.44	60.56	90-100
4.75	5442	9386	93.86	6.14	40-85
Pan	614	10000			0-10

Remarks : ✓ Satisfactory / Not Satisfactory

Note: The material used in the site satisfied the standards of MORTH's 5th revision & Hence can be used for the work.

AE

AE-1

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Y... Zn)
Yelahanka, Bangalore

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

Consultant's Representative

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TEST REPORT

TEJUS CONSULTANTS

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand/M sand	Proposed Use	Concrete
Location/Source	At Plant/site	Date of Sampling	01-10-2020
Period of Soaking	24 hours	Date of Testing	02-10-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	666	668	662	
B	Weight of oven - dry sample gm.	657	660	654	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1694	1694	1692	
E	Bulk specific gravity B / (C+A-D)	2.660	2.651	2.669	2.660
F	Water absorption (A-B)*100 / B	1.370	1.212	1.223	1.268

Remarks : Satisfactory / Not Satisfactory

Note: The material used in the site satisfied the standards of MORTH's 5th Revision & hence can be used in work.

Consultant's Representative

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

Asst. Executive Engineer, Yelahanka Sub Division (BBMP Ynk. Zn) Yelahanka, Bangalore

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Concrete
Sample Location	Plant	Date of Sampling	03-10-2020
		Date of Testing	03-10-2020

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	584	584	5.84	94.16	90-100
10.0	3348	3932	39.32	60.68	40-85
4.75	5432	9364	93.64	6.36	0-10
Pan	636	10000			

AE-1

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP YnkPZn)
Yelahanka, Bengalore

Remarks : ✓ Satisfactory / Not Satisfactory

Note:- The material used in the site satisfied the standards of MORTH 5th revision & hence it can be used for the work.

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

Consultant's Representative

TEJUS CONSULTANTS (stamp)

TEJUS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/S Benaka Developers and Projects Pvt Ltd	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	Plant		Date of Sampling	03-10-2020	
			Date of Testing	03-10-2020	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	596	596	5.96	94.04	90-100
10.0	3364	3960	39.60	60.40	40-85
4.75	5492	9452	94.52	5.48	0-10
Pan	548	10000			

AE-I

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Remarks : ✓ Satisfactory / Not Satisfactory

Note:- The material used in the site satisfied the standards of morth 5th Revision & Hence Can be used in the work.

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS

Consultant's Representative

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike		
Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.		
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore		
Contractor	M/S Benaka Developers and Projects Pvt Ltd		
Total Weight:	10000	gms	

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	At Plant	Date of Sampling	03-10-2020
		Date of Testing	03-10-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	284	284	2.84	97.16	95 - 100
10.00 mm	4652	4936	49.36	50.64	25 - 55
4.75 mm	4574	9510	95.10	4.90	0 - 10
Pan	490	10000			

✓ Satisfactory / Not Satisfactory

AE-1

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

AE

Note: The material used in the site satisfied the standards of MORTH's 5th revision & hence can be used in the work.

Consultant's Representative

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Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS

Test Report on Compressive Strength of Concrete Cubes

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample location	Venkatappa Layout main road, Chainage @ 45

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	05-10-2020	12-10-2020	7 days	8.824	22500	436	19.38	19.53
2	05-10-2020	12-10-2020	7 days	8.832	22500	440	19.56	
3	05-10-2020	12-10-2020	7 days	8.870	22500	442	19.64	

Remarks : ✓ Satisfactory / Not Satisfactory

Note: The material used in the site satisfied the standard of MORTH & 5th revision & Hence can be used in the work.

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

Consultant's Representative

TEJUS CONSULTANTS

Test Report on Compressive Strength of Concrete Cubes

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample location	Venkatappa Layout main road, Chainage @ 120

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	05-10-2020	12-10-2020	7 days	8.224	22500	446	19.82	19.61
2	05-10-2020	12-10-2020	7 days	8.324	22500	438	19.47	
3	05-10-2020	12-10-2020	7 days	8.420	22500	440	19.56	

Remarks :

✓ Satisfactory / Not Satisfactory

NOTE: The material used in the site satisfied the standards of MORTH's 5th Revision & hence can be used in the work.

Asst. Executive Engineer

Yela... Sub Division

Consultant's Representative

TEJUS CONSULTANTS (stamp)

TEJUS CONSULTANTS (stamp)

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CONSULTANTS

Test Report on Compressive Strength of Concrete Cubes

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample location	Venkatappa Layout main road, Chainage @ 225

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	05-10-2020	12-10-2020	7 days	8.740	22500	440	19.56	19.50
2	05-10-2020	12-10-2020	7 days	8.682	22500	436	19.38	
3	05-10-2020	12-10-2020	7 days	8.584	22500	440	19.56	

Remarks :

✓ Satisfactory / Not Satisfactory

Note: The material used in the site satisfied the standards of MORTH's 5th revision. Hence be used in the work.

Consultant's Representative

TEJUS CONSULTANTS

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

AE

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CONSULTANTS

Test Report on Compressive Strength of Concrete Cubes

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample location	NDRF road, Chainage @ 30

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	06-10-2020	13-10-2020	7 days	8.832	22500	448	19.91	19.79
2	06-10-2020	13-10-2020	7 days	8.742	22500	446	19.82	
3	06-10-2020	13-10-2020	7 days	8.648	22500	442	19.64	

Remarks :

✓ Satisfactory / Not Satisfactory

Note: The material used in the site satisfied the standards of morth 5th revision & Hence can be used in the work.

TEJUS CONSULTANTS

Consultant's Representative

TEJUS CONSULTANTS

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Asst. Executive Engineer
BBMP
Yelahanka Sub Division

TEJUS CONSULTANTS

Test Report on Compressive Strength of Concrete Cubes

Project	Improvements to roads Drains anf other Devlopmental Works in Maruthinagara Ward No 01 Under SWM Head in Chief Nava Nagarottana Grant of Yelahanka Division Package - 05.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Benaka Developers and Projects Pvt Ltd
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample location	NDRF road, Chainage @ 90

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	06-10-2020	13-10-2020	7 days	8.842	22500	470	20.89	20.77
2	06-10-2020	13-10-2020	7 days	8.682	22500	465	20.67	
3	06-10-2020	13-10-2020	7 days	6.746	22500	467	20.76	

Remarks : ✓ Satisfactory / Not Satisfactory

Note: the material used in the site satisfied the standards of MoRTH 5th revision & hence can be used in the work.

Consultant's Representative

Asst. Executive Engineer
BBMP
Yelahanka Sub Division